# **PERSONAL GPS TRACKER**

## **Contents Tables**

1. Introduction	2
2. What's new?	3
3. Main Features	3
4. Applications	4
5. Specification	4
6. Start up	4
7. Get the position by calling the tracker	5
8. Set the authorized number	6
9. Delete authorized number	6
10. Get position by sending SMS command	6
11. Continuous tracking function	6
12. SOS function	6
13. Dial the preset phone number by Call 1 or Call 2	7
14. Listen in function	7
15. Speeding alert	7
16. GEO-FENCE	7
17. Low battery alert	8
18. Set the local time	8
19. Modify the password	8
20. GPRS setting	8
21. Displaying location on Google map	9
22. Displaying location on your cell phone	9
23. Tracking in the PC software	10
24. Cautions	10
25. GPRS protocol	11

## 1. Introduction

Working Based on existing GSM /GPRS network and GPS satellites, this tracker is a small and powerful tracking device that is developed for personal, vehicle and pet etc. Not only transmit the longitude and latitude coordinate to your cell phone by SMS, but also transmitting the longitude and latitude coordinate to the designated server by GPRS and then displaying the location by tracking software.



## 2. What's new?

- Mini size: As small as a car remote controller can be link to the key chain.
- > Excellent design: Especially design for personal using.
- ▶ Phone call function: It can make a phone call by pressing the button.
- Get position by 3 ways: Search the coordinate in Google map, click the URL and see the position in cell phone directly and view the position and history in tracking software.

## 3. Main Features

- Locating and tracking via SMS or GPRS
- Support voice call
- ◆ Listen in function
- ♦ SOS alert
- ♦ Geo-fence alarm
- Speeding alert
- ◆ Low battery alert

## 4. Applications

- Protect the child/elderly/disabled/pet etc.
- Personnel management
- Track the vehicle/ equipment etc.
- ◆ Provide peace-of-mind for businessmen

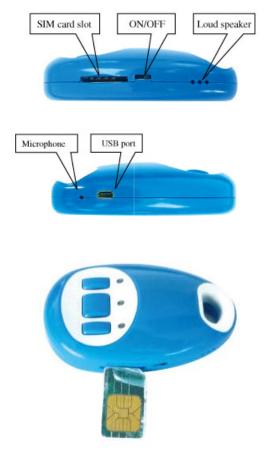
## 5. Specification

Content	Specs.
Dimension	70.7mm x 42.9mm x 20.1mm
Weight	40g

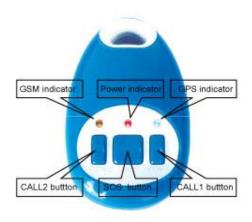
Network	GSM/GPRS
Band	900/1800Mhz
	900/1800/1900Mhz
	850/900/1800/1900Mhz
GPS chip	SIRF3 chip
GPS sensitivity	-159dBm
GPS accuracy	5-20m
Cold start	42 sec.
Warm starts	38 sec.
Hot start	1 sec.
Battery	Chargeable 3.7V 870mAh battery
Operation temperature	-20°C to +55°C
Humidity	5%95% non-condensing

## 6. Start up

Do charge the battery to capacity in 8 -12 hours for first use. After the first use, the battery can be charged fully in 3-5hours. In order to protect the device please use the battery and charger provided by the manufacturer.



Insert the SIM card into the tracker like this.



Press the on/off button for 5 second outdoors to start the tracker. Three LEDs will be bright at the same time during the tracker starting. In 10 to 30seconds, the unit will begin to work and indicators will blink as the following:

Three LED	Bright at th	e same time	The device is starting
Orange	Blink like		Work in GSM mode
Orange	Blink like	^^~~	Connecting GPRS
Orange	Blink like		Had connected to GPRS
Red LED (power)	Blink like	$\Delta$	Power on
Blue LED (GPS)	Blink like		Had got GPS signal

#### 7. Get the position by calling the tracker

You can use the cell phone to call the SIM number that in the tracker for 3 seconds, then hang up the call before the tracker hangs up or receives it. The tracker will reply a position SMS with latitude and longitude in it. You can put the coordinate into Google map and search for the position. The tracker will not reply the SMS If you did not hang up the call before the tracker hangs up or receives it.

The tracker will reply to any incoming call number if you do not set the authorized numbers yet. Once you had set the authorized number, the tracker will reply SMS to the authorized numbers only.

### 8. Set the authorized number.

Send SMS"123456A1, phone number" to set the first SOS number.

Send SMS"123456A2, phone number" to set the second SOS number.

Send SMS"123456A3, phone number" to set the third SOS number.

Send SMS"123456A4, phone number" to set the CALL1 number.

Send SMS"123456A5, phone number" to set the CALL2 number.

Note: 123456 is the default password. A must be English in capital and make sure there is no space in the command. Phone number must include the country code

E.g. send SMS "123456A1,+8613812345678" to set +8613812345678 as the first SOS number. +86 is the country code of China. Please do not use 00 instead of +.

It doesn't means that all of the five authorized numbers should be set, but at least set one authorized number. The device will only accept the all of the SMS commands from the authorized numbers only.

#### 9. Delete authorized number.

Send SMS"123456A1,D" to delete the first SOS number.

Send SMS"123456A2,D" to delete the second SOS number.

Send SMS"123456A3,D" to delete the third SOS number.

Send SMS"123456A4,D" to delete the CALL1 number.

Send SMS"123456A5,D" to delete the CALL2 number.

E.g. send "123456A1,D" to delete the first SOS number.

## 10. Get position by sending SMS command.

Send SMS "123456F" to the device and it will reply its position by SMS. Only the authorized number can get the reply.

Note: F must be English in capital.

E.g. send "123456F" to the unit. It will reply its position.

#### 11. Continuous tracking function

Send SMS "123456M0/M1,xxxS/M/H" to the unit, the tracker will reply the position message according to the time interval. If the device did not connect to the server, the message will reply to A1 number or it will reply to server.

Note: M must be English In capital.

M0 means turn off, M1 means turn on

xxx means time interval and must be three numbers,030S means 30S.

S means second, M means minute, H means hour

H should be≤90, S,M should be <255

E.g. send"123456M1,030S" to the tracker means every 30 seconds send back a position coordinate to the A1 number. Send"123456M0,030S" to the tracker means stop the continuous tracking.

#### 12. SOS function

It will send "help me! + GPS info" to A1, A2, A3 authorized numbers if the SOS button was pressed for 3 seconds. In the mean time, it will dial the 3 authorized numbers (A1, A2, A3). The first preset number will take priority over the second one and the third one. If the tracker fails to connect to the first number, it will switch to the second one, In case the second number fail to be connected too, the system will connect to the third number, This will go on and on until one of the telephone pick up, then two ways communication starts.

## 13. Dial the preset phone number by Call 1 or Call 2.

Press CALL1 button for 3 seconds, the tracker will dial the CALL1 number. Press CALL2 button for 3 seconds, the tracker will dial the CALL2 number.

#### 14. Listen in function

If authorized numbers calls the tracker and wait to the tracker pick it up thel. You can hear the sounds around the tracker.

## 15. Speeding alert

Sent SMS "123456J0/J1,speed" to set the Speeding alert function.

Note: J must be English in capital.

J0 means turn off the over speed alert function; J1 means turn on the speeding alert function. speed should be<250 and must 3 numbers, e.g. 080= 80 km/h.

For example, send "123456J1,080" to tracker. When the object moves exceeds 80 km/h, the unit will send SMS as "Over speed! +GPS info" to the A1,A2,A3 number. Send "123456J0,080" to tracker means turn off the speeding alert function.

#### 16. GEO-FENCE

Send SMS "123456lxyz,aabbccddefffgghhiijkkllmmnnepppqqrrssj" to set up the geo-fence for the device to restrict its movement within a district. The device will send the message to the A1, A2, A3 numbers as "Stockade +geo info" when it breaches the district.

5 GEO-FENCES can be set for the tracker.



Note: I must be English in capital.

x=NO. of the GENFENCE(1-5)

y=1 means turn on, y=0 means turn off

z=0 means go into, z=1 means go out

e=N means north latitude, e=S means south latitude

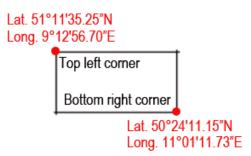
j=E means east longitude, j=W means west longitude

aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3.

fff,ppp must be 3 numbers.011 means 11.

E.g. The first Lat.51°11'35.25"N, Long.9°12'56.70"E

The second Lat.50°24'11.15"N, Long.:11°01'11.73"E



So the SMS command should be "123456I1,1,1,51113525N009125670E50241115N011011173E"

#### 17. Low battery alert

Send SMS "123456 N 0/N1,xx" to set the low-battery alert.

Note: N must be English in capital, N0 means turn off the low-battery alert function; N1 means turn on the

low-battery alert function. xx should be <45 and must be 2 numbers.

E.g. send"123456N1,30" to the tracker means when the battery is lower then 30%,it will send a alert to the authorized number. Send"123456N0,30" to the tracker means turn off the low battery alert function.

#### 18. Set the local time

Send SMS "123456L,time zone" to set the local time

Note: L must be English in capital, + in the time zone means east,- in the time zone means west. Time zone must be 2 numbers. So Beijing time zone should be like this: +08

E.g. send "123456L+08" to set the time to the Beijing time.

## 19. Modify the password

Send SMS "123456H\*\*\*\*\*\*" to change the password.

Note: \*\*\*\*\*\* is the New password. H must be English in capital, send it to tracker to modify the password. (Default password: 123456)

E.g. send "123456H456789" means change the password 123456 to 456789

The password won't be erased by changing SIM card.

Be sure keep the password in mind, otherwise you have to update the software to restore the original setting in case of losing the password.

The password must be 6 numbers, If not the tracker can not recognize the password.

#### 20. GPRS setting

In order to use GPRS function, the user needs to set IP, Port and APN (access point name) by sending SMS commands. Make sure that your SIM card in the tracker supports the GPRS function.

Send SMS "123456C\$\$\$\$,IP:Port" to set the APN, IP and port.

Note: C must be English in Capital. Please get APN from your local GSM operators and pay attention to the lower case or upper case of those letters.

E.g. send SMS "123456CCMNET, 119.122.101.91:7289".CMNET is the APN in China, please set the APN in your country.

Send SMS "123456O&&&&, @@@@" to set the username and password for GPRS.

Note:&&&& is the username and @@@@ is the password. O must be English in capital. This setting depends on different providers. If the provider doesn't need username and password for the GPRS, you do not need to send this command.

E.g. send SMS "123456Owap, wap". The username will be wap and the password will be wap.

Send SMS "123456D" to turn on GPRS

Note: D must be English in capital.

E.g. send SMS "123456D"

Send SMS "123456E" to turn off GPRS

Note: E must be English in capital.

E.g. send SMS "123456E"

Send SMS "123456B" to get the IMEI number of the unit.

Note: B must be English in capital.

E.g. send SMS "123456B"

## 21. Displaying location on Google map

Go to <a href="http://maps.google.com">http://maps.google.com</a> and type in the latitude and longitude like this: 22.7640801N,114.3975566E



Click search button, then you can see the position.

Search Maps

Download Google earth software from <a href="http://earth.google.com/">http://earth.google.com/</a> and install it in to your computer. Start the Google Earth software and type the latitude and longitude into the software like this: 22.7640801N,114.3975566E. Click search. Then you can see the position.



#### 22. Displaying location on your cell phone

It will reply a URL within the location SMS like:

http://maps.google.com/maps?f=g&hl=en&g=22.7640266,114.3975833

Click the RUL then you can see the location



# 23. All of the SMS command list

The default password is 123456.

Set notitinuous tracking  Set continuous tracking  Sample of Setting authorized numbers  123456A1, phone number  123456A2, phone number  123456A3, phone number  123456A1, phone number  123456A1, phone number  123456A1, phone number  123456A1, phone number  123456A2, pho	Name	Sentence content	Description
numbers 123456A2,phone number 123456A3,phone number 123456A3,phone number 123456A4,phone number 123456A5,phone numbers 123456A5,phone numbers 123456A5,phone numbers 123456A5,phone number 123456A5,phone numbers 123456A5,phone numbers 123456A5,phone number 123456A5,phone number 123456A5,phone numbers 123456A5,phone number 12			•
123456A3,phone number   123456A4,phone number   123456A5,phone number   123456A5,phone number   123456A5,phone number   123456A5,phone number   123456A5,phone number   123456A1,phone number   123456A3,phone number   1234			
123456A5, phone number 123456A7, phone number must include the country code of China. Please do not use 00 instead of + 123456A1, phone numbers 123456A1, phone number 123456A1, phone number 123456A2, phone number 123456A3, phone number 123456A1, phone number 123456A1, phone number 123456A1, phone number 123456A2, phone number 123456A3, phone number 123456M2, phone number 123456M3, phone	Humbers		
Sample of setting authorized numbers   123456A1, +8613812345678   23456A2, D   123456A3, D   12345			
Phone number must include the country code like +8613812345678 *86 is the country code of China. Please do not use 00 instead of +  Sample of setting authorized numbers  Delete authorized numbers  123456A1,D  123456A2,D  123456A3,D  123456A4,D  123456A4,D  123456A4,D  123456A5,D  Get position by 123456A5,D  The tracker will reply the position to your mobile phone  Set continuous tracking  123456Mx,yyyz  123456Mx,yyyy  123456Mx,yyyy  123456Mx,yyyy  123456Mx,yyyy  123456Mx,yyyy  123456Mx,yyyy  123456Mx,yyyy  123456Mx,yyy  1234			number.
Sample of setting authorized numbers  Delete authorized numbers  123456A1,D 123456A2,D 123456A3,D 123456A3,D 123456A3,D 123456A4,D 123456A5,D  Get position by 123456A5,D  Get continuous tracking  The tracker will reply the position to your mobile phone  Set continuous tracking  Set passible of Setting also are setting the setting the setting the setting also and the setting also an		12010010, priorio riumbo.	Phone number must include the
Sample of setting authorized numbers  Delete authorized numbers  Delete authorized numbers  123456A1,D  123456A2,D  123456A3,D  123456A4,D  Cet position by SMS  Set continuous tracking  123456Mx,yyyz  123456Mx,yyyy  123456Mx,yyyy  123456Mx,yyyy  123456Mx,yyyy  123456Mx,yyyy  123456Mx,yyyy  123456Mx,yyyy  123456Mx,yyyy  123456Mx,yyyy  123456Mx,yyy  123456Mx,yx,yy  123456Mx,yyy  123			
Sample of setting authorized numbers  Delete authorized numbers  Delete authorized numbers  123456A1,D  123456A2,D  123456A2,D  123456A3,D  123456A3,D  123456A3,D  123456A3,D  123456A3,D  123456A3,D  123456A5,D  Get position by SMS  Set continuous tracking  123456MX,yyyz  123456MX,yyyy  123456MX,yyyy  123456MX,yyyy  123456MX,yyyy  123456MX,yyyy  123456MX,yyy  123456MX			
Sample of setting authorized numbers  Delete authorized numbers  Delete authorized numbers  123456A1,D 123456A2,D 123456A3,D 123456A3,D 123456A3,D 123456A5,D  Get position by SMS  Set continuous tracking  123456M1,030S  Sample of Setting continuous tracking  Set the speeding alarm  Set peeding alarm  123456J1,080  Set GEO fence  123456ix,y,z, aabbccddefffgghhiijkkllmmnnepppqqrrssj  Lat aa"bb'cc.dd" Long fff"ag'ff ii"  Top left comer  Bottom right corner  Lat kk"imm.nn" Long ppp"qq'rrss'  Set +8613812345678 as the first SOS number  A1,A2,A3 is for setting the 3 SOS numbers.A4 is for CALL1 number.A5 is for CALL2 number at SOS numbers.A4 is for CALL1 number.A5 is for CALL2 number at SOS numbers.A4 is for CALL1 number.A5 is for CALL2 number at SOS numbers.A4 is for CALL1 number.A5 is for CALL2 number at SOS numbers.A4 is for CALL1 number.A5 is for CALL2 number at SOS numbers.A4 is for CALL1 number.A5 is for CALL2 number at SOS numbers.A4 is for CALL1 number.A5 is for CALL2 number at SOS numbers.A4 is for CALL1 number.A5 is for CALL1 number.A5 is for CALL1 number.A5 is for CALL2 number at SOS numbers.A4 is for CALL1 number.A5 is for CAL			country code of China. Please do
Delete authorized numbers  Delete authorized numbers  123456A1,D 123456A2,D 123456A3,D 123456A3,D 123456A3,D 123456A5,D  Get position by SMS  Set continuous tracking  Set provided in the speeding alarm  Set provided in the speeding alarm  Set GEO fence  123456M1,030S  133456M1,030S  133456M1,030S  143456M1,030S  1504 The tracker will reply the position to your mobile phone  123456M1,030S  1504 The tracker will reply the position to your mobile phone  123456M1,030S  123456M1,030S  123456M1,030S  133456M1,030S  133456M2,03D  133456M1,030S  133456M2,03D  133456M2,03D  133456M1,030S  133456M1,03OS  133456M1,03OS  133456M1,03OS  133456M1,03OS  133456M1,03OS  133456M1,03OS  133456M1,03OS  133456M1,03OS  133456M1,03OS  1334			not use 00 instead of +
Delete authorized numbers  Delete authorized numbers  123456A1,D 123456A2,D 123456A3,D 123456A3,D 123456A3,D 123456A5,D  Get position by SMS  Set continuous tracking  Set provided in the speeding alarm  Set provided in the speeding alarm  Set GEO fence  123456M1,030S  133456M1,030S  133456M1,030S  143456M1,030S  1504 The tracker will reply the position to your mobile phone  123456M1,030S  1504 The tracker will reply the position to your mobile phone  123456M1,030S  123456M1,030S  123456M1,030S  133456M1,030S  133456M2,03D  133456M1,030S  133456M2,03D  133456M2,03D  133456M1,030S  133456M1,03OS  133456M1,03OS  133456M1,03OS  133456M1,03OS  133456M1,03OS  133456M1,03OS  133456M1,03OS  133456M1,03OS  133456M1,03OS  1334			
Delete numbers  123456A1,D 123456A2,D 123456A3,D 123456A3,D 123456A4,D 123456A5,D  Get position by SMS  Set continuous tracking  Sample of Setting continuous tracking  Set the speeding alarm  123456M1,030S  Set the speeding speeding alarm  123456J1,080  Sample of Setting she speeding speeding alarm  123456J1,080  Set GEO fence  123456Ix,y,z, aabbccddefffgghhiijkkllmmnnepppqqrrssj  Lat aa*bbcc dd* Long fff*ggft.ir  Top left comer Boltom right come		123456A1,+8613812345678	
numbers  123456A3,D 123456A4,D 123456A4,D 123456A5,D 123456F  Set continuous tracking  Sample of Setting continuous tracking  Set the speeding alarm  Sample of setting speeding alarm  Set GEO fence  123456J1,080  Set GEO fence  123456J1,080  Set GEO fence  123456Ix,y,z, aabbccddefffgghhiijkklimmnnepppqqrrssj  Lat aa°bb'cc.dd* Long fff*ggffiir  Long ppp*qqtr.ss*  A1,A2,A3 is for setting to A1,A2,A3 is for cALL 2 number CALL 2 number. A2 for CALL 2 number. A3 is for cALL 2 number. A4 is for CALL 2 number of your mobile phone  x=1 means on, x=0 means off yyy means time interval. Z means time unit. z=S means second, z=M means minute, z=H means hour if z=S/M it should be<-255. if z=H, it should be<-255. if z=H, it should be<-250. Z must be three digital. The tracker will reply the position every 30 second  x=1 neans on, x=0 means off yyy means the alarm speed, it should be<-250 and must three digital, e.g. 080=80km/h.  The tracker will send a speeding alarm to authorized number or server if it is over the 80km/h  x=NO. of the GEO-fence(1-5).5  GEO fence can be set y=1 means on, y=0 means off z=0 means go in, z=1 means go out e=N means the north latitude, i=E means the east longitude, i=W means the west longitude aa,bb,cc,dd,kk,ll,mm,nn,qn,r,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11	authorized numbers		SOS number
numbers  123456A3,D 123456A4,D 123456A4,D 123456A5,D 123456F  Set continuous tracking  Sample of Setting continuous tracking  Set the speeding alarm  Sample of setting speeding alarm  Set GEO fence  123456J1,080  Set GEO fence  123456J1,080  Set GEO fence  123456Ix,y,z, aabbccddefffgghhiijkklimmnnepppqqrrssj  Lat aa°bb'cc.dd* Long fff*ggffiir  Long ppp*qqtr.ss*  A1,A2,A3 is for setting to A1,A2,A3 is for cALL 2 number CALL 2 number. A2 for CALL 2 number. A3 is for cALL 2 number. A4 is for CALL 2 number of your mobile phone  x=1 means on, x=0 means off yyy means time interval. Z means time unit. z=S means second, z=M means minute, z=H means hour if z=S/M it should be<-255. if z=H, it should be<-255. if z=H, it should be<-250. Z must be three digital. The tracker will reply the position every 30 second  x=1 neans on, x=0 means off yyy means the alarm speed, it should be<-250 and must three digital, e.g. 080=80km/h.  The tracker will send a speeding alarm to authorized number or server if it is over the 80km/h  x=NO. of the GEO-fence(1-5).5  GEO fence can be set y=1 means on, y=0 means off z=0 means go in, z=1 means go out e=N means the north latitude, i=E means the east longitude, i=W means the west longitude aa,bb,cc,dd,kk,ll,mm,nn,qn,r,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11			
123456A3_D   123456A4_D   123456A4_D   123456A4_D   123456A5_D			
123456A5,D   123456B   123456B   The tracker will reply the position to your mobile phone   Set continuous tracking   123456Mx,yyyz	numbers		_
123456A5,D   123456F   The tracker will reply the position to your mobile phone   x=1 means on, x=0 means off ypy means time interval. Z means time unit. z=S means second, z=M means minute, z=H means hour lif z=S/M it should be <=255. lif z=H, it should be <=090. Z must be three digital		l · · · · · · · · · · · · · · · · · · ·	
Get position by SMS  Set continuous tracking  123456Mx,yyyz  123456Mx,yyy  Sample of Setting continuous tracking  Set the speeding alarm  123456Jx,yyy  123456Jx,yy, aabbccddefffgghhiijkklimmnnepppqqrrssj  Set GEO fence  123456Ix,y,z, aabbccddefffgghhiijkklimmnnepppqqrrssj  123456Ix,y,z, aabbccddefffgghhiijkklimmnnepppqqrssj  123456Ix,y,z, aabbccddefffgghhiijkklimmnnepppqq			number.A5 is for CALL 2 number
SMS  Set continuous tracking  123456Mx,yyyz  123456Mx,yyyz  x=1 means on, x=0 means off yy means time unit, z=S means second, z=M means minute, z=H means hour lf z=S/M it should be <=255. if z=H, it should be <=090. Z must be three digital  Sample of Setting continuous tracking  Set the speeding alarm  123456Jx,yyy  123456	Cot position by		The tracker will reply the position
Set continuous tracking    123456Mx,yyyz		123430F	
tracking  yyy means time interval. Z means time unit, z=S means second, z=M means minute, z=H means hour if z=S/M it should be <=255. if z=H, it should be <=255. if z=H, it should be <=255. if z=H, it should be <=2090. Z must be three digital  Set the speeding alarm  123456Jx,yyy  123456Jx,yyy  123456Jx,yyy  2=1 neans on x=0 means off yyy means the alarm speed, it should be <250 and must three digital, e.g. 080=80km/h.  Set GEO fence  123456Jx,yz, aabbccddefffgghhiijkklimmnnepppqqrrssj  Set GEO fence  123456Jx,yz, aabbccddefffgghhiijkklimmnnepppqqrrssj  Lat aa°bb'cc.dd" Long. fff°gg'ff.ii"  Top left comer Bottom right corner Lat kk°llmm.nn' Long. ppp°qq'rr.ss'  Set GEO fence can be set y=1 means on, y=0 means off z=0 means go in, z=1 means go out e=N means the north latitude, i=E means the east longitude aa,bb,cc,dd,kk,il,mm,nn,qq,rr,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11		122456My 2007	-
Z means time unit, z=S means second, z=M means minute, z=H means hour If z=S/M it should be <=255. if z=H, it should be <=255. if z=H, it should be <=090. Z must be three digital The tracker will reply the position every 30 second  Set the speeding alarm  123456Jx,yyy  123456Jx,yyy  123456Jx,yyy  2 means time unit, z=S means second, z=M means minute, z=H means hour If z=S/M it should be <=250. if z=H, it should be <=290. Z must be three digital reply the position every 30 second  x=1 neans on,x=0 means off yyy means the alarm speed, it should be <250 and must three digital, e.g. 080=80km/h.  The tracker will send a speeding alarm to authorized number or server if it is over the 80km/h  Set GEO fence  123456Jx,yz, aabbccddefffgghhiijkkllmmnnepppqqrrssj  x=NO. of the GEO-fence(1-5),5 GEO fence can be set y=1 means on, y=0 means off z=0 means go in, z=1 means go out e=N means the north latitude, i=E means the south latitude i=E means the east longitude aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11		123430WX,yyy2	
Sample of Setting continuous tracking   123456M1,030S   The tracker will reply the position every 30 second   Set the speeding alarm   123456J1,080   The tracker will reply the position every 30 second   x=1 neans on,x=0 means off ypy means the alarm speed, it should be<250 and must three digital   x=0,080=80km/h.	liacking		1
z=H means hour If z=S/M it should be <=255. if z=H, it should be<=090. Z must be three digital  Sample of Setting continuous tracking  Set the speeding alarm  123456Jx,yyy  123456Jx,yyy  123456J1,080  Sample of setting speeding alarm  123456J1,080  Set GEO fence  123456Jx,yz, aabbccddefffgghhiijkkllmmnnepppqqrrssj  Lat. aa°bb'cc.dd"  Long. fff°gg'ff.ii"  Top left corner  Bottom right			·
If z=S/M it should be <=255. if z=H, it should be <=290. Z must be three digital			
Sample of Setting continuous tracking  Set the speeding alarm  Set the speeding alarm  123456J1,080  Set GEO fence  123456Ix,y,z, aabbccddefffgghhiijkkllmmnnepppqqrrssj  Lat aa°bb'cc.dd" Long. ppp°qq'rr.ss'  Lat kk°llmm.nn" Long. ppp°qq'rr.ss'  if z=H, it should be<=090. Z must be three digital The tracker will reply the position every 30 second  x=1 neans on,x=0 means off yyy means the alarm speed, it should be<250 and must three digital, e.g. 080=80km/h.  The tracker will send a speeding alarm to authorized number or server if it is over the 80km/h x=NO. of the GEO-fence(1-5),5 GEO fence can be set y=1 means on, y=0 means off z=0 means go in, z=1 means go out e=N means the north latitude, j=E means the east longitude, j=W means the west longitude aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11			
Sample of Setting continuous tracking  Set the speeding alarm  123456Jx,yyy  123456Jx,			
Sample of Setting continuous tracking  Set the speeding alarm  123456Jx,yyy  123456Jx,yz, abbccddefffgghhiijkkllmmnnepppqqrrssj  Set GEO fence  123456lx,yz, aabbccddefffgghhiijkkllmmnnepppqqrrssj  123456lx,yz, aabbccddefffgghhiijkkllmmnnepppqqrrssj  123456lx,yz, aabbccddefffgghhiijkkllmmnnepppqqrrssj  Top left corner  Bottom right corner  Lat. kk°llmm.nn°  Long. ppp°qq'rr.ss'  Bottom ppp°qq'rr.ss'  The tracker will reply the position every 30 second  x=1 neans on,x=0 means off yyy means the alarm speed, it should be<250 and must three digital, e.g. 080=80km/h.  The tracker will reply the position every 30 second  x=1 neans on,x=0 means off yyy means the alarm speed, it should be<250 and must three digital, e.g. 080=80km/h.  The tracker will reply the position every 30 second  x=1 neans on,x=0 means off yyy means the alarm speed, it should be<250 and must three digital, e.g. 080=80km/h.  The tracker will reply the position every 30 second  x=1 neans on,x=0 means off yyy means the alarm speed, it should be<250 and must three digital, e.g. 080=80km/h.  The tracker will reply the position every 30 second  x=1 neans on,x=0 means off yyy means the alarm speed, it should be<250 and must three digital, e.g. 080=80km/h.  The tracker will reply the position every 30 second  x=1 neans on,x=0 means off yyy means the alarm speed, it should be<250 and must three digital, e.g. 080=80km/h.  The tracker will seven a speeding alarm or authorized number or server if it is over the 80km/h.  The tracker will seven a speeding alarm or authorized number or server if it is over the 80km/h.  The tracker will seven alarm speed, it should be<250 and must three digital, e.g. 080=80km/h.  The tracker will seven alarm speed, it should be<250 and must three digital, e.g. 080=80km/h.  The tracker will seven alarm speed, it should be<250 and must three digital, e.g. 080=80km/h.  The tracker will seven alar			
continuous tracking  Set the speeding alarm  123456Jx,yyy  123456Jx,yyy  x=1 neans on,x=0 means off yyy means the alarm speed, it should be<250 and must three digital, e.g. 080=80km/h.  The tracker will send a speeding alarm to authorized number or server if it is over the 80km/h  Set GEO fence  123456Jx,y,z, aabbccddefffgghhiijkkllmmnnepppqqrrssj  Lat aa°bb'cc.dd" Long. fff°ggffii"  Top left comer Bottom right corner  Lat kk°ll'mm.nn" Long. ppp°qq'rr.ss'  Lat be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11	Comple of Cotting	4224ECM4 020C	·
Set the speeding alarm    123456Jx,yyy		123430W1,0305	
alarm  Sample of setting speeding alarm  123456J1,080  Set GEO fence  123456lx,y,z, aabbccddefffgghhiijkkllmmnnepppqqrrssj  Set GEO fence  123456lx,y,z, aabbccddefffgghhiijkkllmmnnepppqqrrssj  Lat aa°bb'cc.dd" Long. fff°gg'ff.ii"  Top left comer Bottom right corner Lat. kk°il'mm.nn" Long. ppp°qq'rr.ss"  Lat. aa'bb'cc.dd" z=0 means go in, z=1 means go out e=N means the north latitude, e=S means the east longitude, j=W means the west longitude, j=W means the west longitude, aa,bb,cc,dd,kk,ll,mm,nn,qn,rr,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11		422456 by anny	
Sample of setting speeding alarm  123456J1,080  123456J1,080  The tracker will send a speeding alarm to authorized number or server if it is over the 80km/h  Set GEO fence  123456lx,y,z, aabbccddefffgghhiijkkllmmnnepppqqrrssj  Lat. aa°bb'cc.dd" Long. fff°ggff.ii"  Top left comer Bottom right corner Lat. kk°llmm.nn" Long. ppp°qq'rr.ss"  Lat. kk°llmm.nn" Long. ppp°qq'rr.ss"  Should be<250 and must three digital, e.g. 080=80km/h.  The tracker will send a speeding alarm to authorized number or server if it is over the 80km/h  x=NO. of the GEO-fence(1-5),5  GEO fence can be set y=1 means on, y=0 means off z=0 means go in, z=1 means go out e=N means the north latitude, e=S means the east longitude, j=E means the east longitude, j=W means the west longitude aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11		1234303X,yyy	•
digital, e.g. 080=80km/h.  Sample of setting speeding alarm  Set GEO fence  123456J1,080  Set GEO fence  123456lx,y,z, aabbccddefffgghhiijkkllmmnnepppqqrrssj  Lat. aa°bb'cc.dd" Long. fff"ggff.ii"  Top left corner Bottom right corner Lat. kk°ll'mm.nn" Long. ppp°qq'rr.ss"  Lat. aa°bb'cc.dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11	alaiiii		
Sample of setting speeding alarm  The tracker will send a speeding alarm to authorized number or server if it is over the 80km/h  Set GEO fence  123456lx,y,z, aabbccddefffgghhiijkkllmmnnepppqqrrssj  Lat aa°bb'cc.dd" Long. fff°gg'ff.ii"  Top left corner  Bottom right corner  Lat. kk°ll'mm.nn" Long. ppp°qq'rr.ss"  The tracker will send a speeding alarm to authorized number or server if it is over the 80km/h  x=NO. of the GEO-fence(1-5),5  GEO fence can be set y=1 means on, y=0 means off z=0 means go in, z=1 means go out e=N means the north latitude, i=E means the east longitude aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11			
speeding alarm  alarm to authorized number or server if it is over the 80km/h  x=NO. of the GEO-fence(1-5),5  GEO fence can be set y=1 means on, y=0 means off z=0 means go in, z=1 means go out e=N means the north latitude, e=S means the south latitude j=E means the east longitude, j=W means the west longitude aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11	Sample of cotting	122456 14 000	
server if it is over the 80km/h  Set GEO fence  123456lx,y,z, aabbccddefffgghhiijkkllmmnnepppqqrrssj  Lat. aa°bb'cc.dd" Long. fff°gg'ff.ii"  Top left corner  Bottom right corner  Lat. kk°ll'mm.nn" Long. ppp°qq'rr.ss"  Server if it is over the 80km/h  x=NO. of the GEO-fence(1-5),5  GEO fence can be set y=1 means on, y=0 means off z=0 means go in, z=1 means go out e=N means the north latitude, e=S means the south latitude j=E means the east longitude, j=W means the west longitude aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11		12343031,000	
Set GEO fence  123456lx,y,z, aabbccddefffgghhiijkkllmmnnepppqqrrssj  Lat. aa°bb'cc.dd" Long. fff°gg'ff.ii"  Top left corner Bottom right corner Lat. kk°ll'mm.nn" Long. ppp°qq'rr.ss"  x=NO. of the GEO-fence(1-5),5 GEO fence can be set y=1 means on, y=0 means off z=0 means go in, z=1 means go out e=N means the north latitude, i=E means the east longitude, i=W means the west longitude aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11	speculing alaini		
GEO fence can be set y=1 means on, y=0 means off z=0 means go in, z=1 means go out e=N means the north latitude, e=S means the south latitude j=E means the east longitude, j=W means the west longitude aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11	Set GEO fence	123456ly v.z. aabbeeddefffgghhiiikkllmmnnennnggressi	
Lat. aa°bb'cc.dd" Long. fff°gg'ff.ii"  Top left corner  Bottom right corner  Lat. kk°ll'mm.nn" Long. ppp°qq'rr.ss"  y=1 means on, y=0 means off z=0 means go in, z=1 means go out e=N means the north latitude, e=S means the south latitude j=E means the east longitude, j=W means the west longitude aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11	Set GLO lence	1254551X, y, z, dabbooddorriggirinija kilininini epppqqrissj	` '
Lat. ka°ll'mm.nn" Long. ppp°qq'rr.ss"  Z=0 means go in, z=1 means go out e=N means the north latitude, e=S means the south latitude j=E means the east longitude, j=W means the west longitude aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11			GEO fence can be set
Lat. ka°ll'mm.nn" Long. ppp°qq'rr.ss"  Z=0 means go in, z=1 means go out e=N means the north latitude, e=S means the south latitude j=E means the east longitude, j=W means the west longitude aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11			y=1 means on, y=0 means off
Top left comer  Bottom right corner  Lat. kk°ll'mm.nn" Long. ppp°qq'rr.ss"  out e=N means the north latitude, e=S means the east longitude, j=E means the west longitude aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11		Lat. aa°bb'cc.dd"	•
Top left corner  Bottom right corner  Lat. kk°ll'mm.nn" Long. ppp°qq'rr.ss"  Lat. kk°ll'mm.nn" Long. ppp°qq'rr.ss"  Eat. kk°ll'mm.nn" Long. ppp°qq'rr.ss"  Lat. kk°ll'mm.nn" Long. ppp°qq'rr.ss"  j=W means the east longitude aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3.  fff,ppp must be 3 numbers.011 means 11		Long. fff°gg'ff.ii"	
Bottom right corner  Lat. kk°ll'mm.nn" Long. ppp°qq'rr.ss"  Lat. kk°ll'mm.nn" Long. ppp°qq'rr.ss"  E=N means the notth latitude,  j=E means the east longitude,  j=W means the west longitude  aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss  must be 2 numbers.03 means 3.  fff,ppp must be 3 numbers.011  means 11			
Lat. kk°ll'mm.nn" Long. ppp°qq'rr.ss"  j=E means the east longitude, j=W means the west longitude aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11		Top left confer	e=N means the north latitude,
Lat. kk°ll'mm.nn" Long. ppp°qq'rr.ss"  j=E means the east longitude, j=W means the west longitude aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11		Pottom right corner	e=S means the south latitude
j=W means the west longitude aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11		— ·	
aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3. fff,ppp must be 3 numbers.011 means 11			
must be 2 numbers.03 means 3.  fff,ppp must be 3 numbers.011 means 11		Long. ppp°qq'rr.ss"	•
fff,ppp must be 3 numbers.011 means 11			aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss
fff,ppp must be 3 numbers.011 means 11			must be 2 numbers.03 means 3.
means 11			
q			

Example of setting GEO fence	123456l1,1,1,51113525N009125670E50241115N011011173E	The tracker will send an alarm data when it in/out the district.
	Lat. 51°11'35.25″N	
	Long. 9°12'56.70"E	
	Top left corner	
	Bottom right corner	
	Lat. 50°24'11.15"N	
	Long. 11°01'11.73"E	
Set the time zone	123456Lxyy	x=+ means east x=- means west
		yy means the time zone, must be 2 numbers
Sample of setting	123456L+08	Set the +08 time zone
the time zone Set the low battery	123456Nx,yy	x=1 means on,x=0 means off
alarm	12343014X,yy	yy means battery lower then yy% then send the alarm.lt must be<45.it must be 2 numbers.
Sample of setting	123456N1,40	The tracker will send a low
the low battery	120-1001(1),10	battery alarm if the battery is lower then 40%
Modify the	123456H456789	456789 is the new password,
password		new password must be 6 numbers
Switch to the listen	123456U1	The tracker will pick up the
in mode	(default)	incoming call, and you monitor the invoice around the tracker
Switch to the talk	123456U0	The tracker will pick up the
mode		incoming call, two ways talking communication begin
Set the APN,IP and	123456C\$\$\$\$,IP:Port	\$\$\$\$ is the APN, you can get the
port		APN from your local GSM provider.
Sample of setting	123456CCMNET, 119.122.101.91:7289	CMNET is the APN of China
the APN	, , , , , , , , , , , , , , , , , , , ,	mobile.
Set the username	1234560&&&&, @@@@	&&&& is the username and
and password for APN		@@@@ is the password.  If the SIM card did not need
74114		username and password for the
		APN, you do not need to set it.
Sample of setting	123456Ointernet,internet123	The user name is internet and
the username and password for APN		the password is internet123.
Open GPRS	123456D	The tracker will start to connect
,		the server by GPRS. It will send
		back an SMS to confirm after it
		has connected the server successfully
Close GPRS	123456E	The tracker will close the
		connection with the server
Get the IMEI number	123456B	It will reply the IMEI number of the tracker
	DECETI	
Reset the tracker	RESET!	The tracker will back to the factory default

#### 24. Cautions

Please comply with the instructions to extend the unit life:

- 1. Keep the unit dry. Any liquid, i.e. rain, moisture, may destroy or damage the inside circuitry.
- 2. Don't use & store the unit in dusty places.
- 3. Don't put the unit in overheated or overcooled places.
- 4. Handle carefully. Don't vibrate or shake it violently.
- 5. Clear the unit with a piece of dry cloth. Don't clean in chemicals, detergent.
- 6. Don't paint the unit, this may cause some foreign materials left in between the parts.
- 7. Don't disassemble or refit the unit.
- 8. Please use the battery and charger provided by manufacturer. Using other batteries and chargers will cause unwanted situation.
- 9. Don't dismount the antenna randomly, or use other antennas. This may interfere the transmission, and increase the radiation as well.